

2000nm Polarization Maintaining Tap Coupler (1x2/2x2) (Fast axis blocking)

Key Features

- Low Insertion Loss
- High Extinction Ratio
- Compact In-Line Package
- High Stability and Reliability

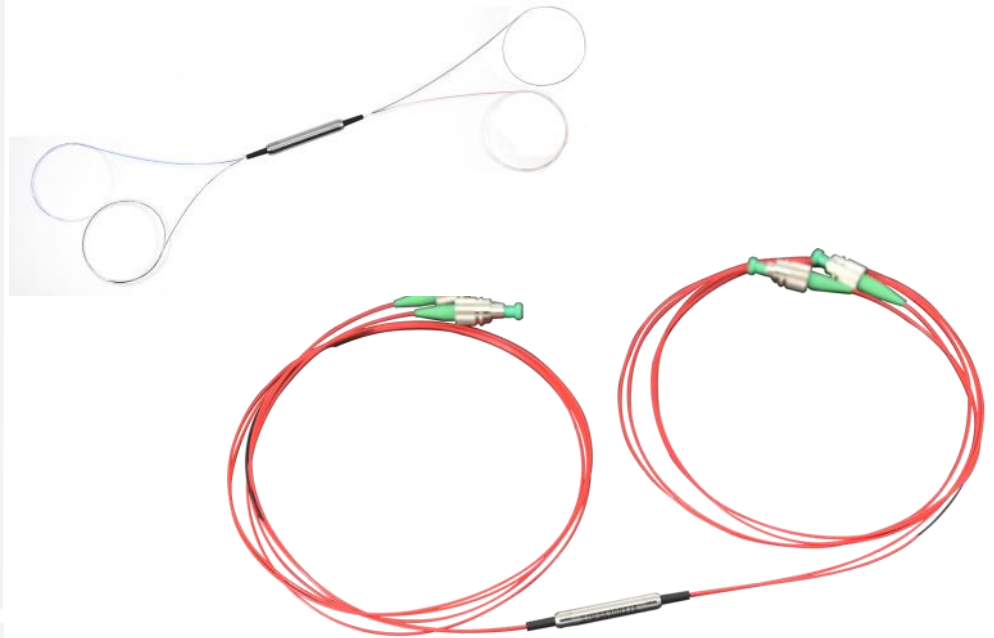
The Polarization Maintaining Tap Coupler is a polarization maintaining coupler which splits the light from the input PM fiber into two output PM fibers. The state of polarization can be aligned either with the slow axis or the fast axis of the PM fibers. The rugged stainless-steel package is designed for high optical performance and stability. This compact device offers low excess insertion loss, low back reflection, and high extinction ratio. Split ratios from 1% to 50% are available.

This PM tap coupler is made of separate light crystals; the output port of light is different from the PM Filter Coupler. And its coupling ratio is more accurate, can handle higher power than PM filter coupler.

The PM Tap Coupler can be used to split high power linearly polarized light into multiple paths without perturbing the line are state of polarization (SOP). It can also be used as a power tap to monitor signal power in a PM fiber system without disturbing the linear SOP of light propagating in the PM fiber. Applications include PM fiber interferometers, power sharing in polarization sensitive systems, and signal monitoring in PM fiber systems.

Applications

- Fiber Optic Instruments
- Fiber Sensors
- Coherent Detecting
- Research



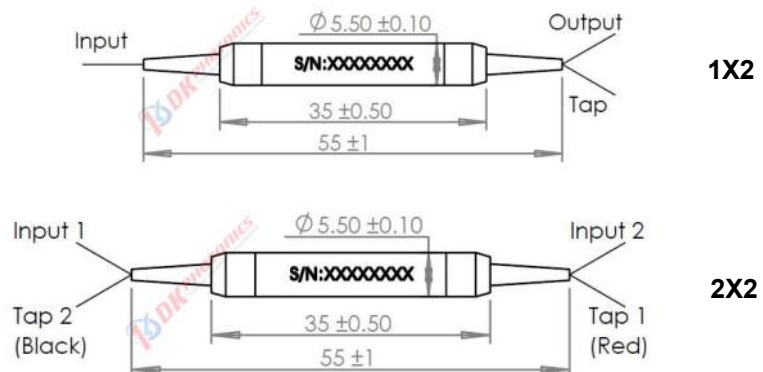
For more Info

Please contact us at:

Tel: +86-755-23736280
 Fax: +86-755-26746512
 E-mail: sales@dkphotonics.com
<https://www.dkphotonics.com>

Add.:
 4F, Bldg. 18, Qinghu Industrial Park,
 Dahe Road, Longhua Dis.,
 Shenzhen, China 518109

Package Dimension:



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.



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Performance Specifications

Parameter	Unit	Values	
Configuration	-	1x2	2x2
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±40	
Tap Coupling Ratio	%	1±0.2%, 2±0.4%, 4±0.8%, 5±1.0%, 10%, 20% and 50%	
Max. Insertion Loss	dB	IL related to CR	
Max. Excess Lose	dB	1.2	1.5
Uniformity(Only for 50/50)	dB	0.6	0.8
Mini. Extinction Ratio	dB	20	18
Return Loss	dB	≤50	
Max. Power Handling	W	0.5, 1, 2, 5,10, 20	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28e or PM1550(default) or PM1950 fiber for tap port PM1550(default) or PM1950 fiber for input & output ports	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Package Dimensions	mm	Ø5.5 x L35	

- Above specifications are for device without connector. All parameters are tested at room temperature.
- If tap port coupling ratio is ≤ 5%, ER will be 2dB lower; for ≤1% tap port, ER is out of concern.
- For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower. The default connectorkey is aligned to slow axis. Power transmits through the connector less than 2W.
- For >10W high power applications, we will use heat sink package, contact DK Photonics for details.
- If there is pulse application, please be sure to inform us of pulse energy and peak power.

Order information P/N: PMTC-①-②-③-④-⑤-⑥-⑦-⑧-⑨

When you inquire, please provide the correct P/N number according to our ordering information and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧	⑨
Port	Operating Wavelength	Power Handling	Axis Alignment	Coupling Ratio	Fiber Type for Tap Port	Pigtails Diameter	Fiber Length	Connector
102:1x2	2000:2000nm	L:<0.5W	F: Fast axis blocked	50:50/50	0:SM Fiber	25:250µm bare fiber	08:0.8m	00: None
202:2x2	XX: Others	1:1W		40:40/60	1: PM Panda Fiber	90:900µm	10:1.0m	FP: FC/PC
		2:2W		30:30/70	X: Others	Loose Tube	XX: Others	FA: FC/APC
				20:20/80		XX: Others		SP: SC/PC
				10:10/90				LA: LC/APC
				01:1/99				XX: Others
				XX: others				

Part Number Example: PMTC-102-2000-2-F-50-1-25-10-00

Description: 2000nm Polarization Maintaining Tap Coupler 1x2, - 2W, Fast axis blocked, 50:50 coupling ratio, 1.0m PM Panda Fiber with bare fiber and no connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.